Patch Management

A critical component in maintaining systems integrity.

Network environments are dynamic, constantly changing, and systems integrity is not a static state.

Customer networks feature different versions of operating systems, different languages, different patch levels, different applications and may operate over different time zones, not to mention the ever-changing threat landscape.

Staying on top of the acquisition, testing, approval and application of patches is a daunting challenge.

When it comes to vulnerabilities in customer networks, it is no longer a question of if they will be exploited but when.

A Patch Management strategy informed through data, governed by a robust process, supported by automation gives you back the control you need to ensure the systems integrity of customer networks.

Benefits

Automation offers:

- **Patch Monitoring** - dashboards and reports keep you informed with real-time data
- **Management** - manage vulnerabilities through timely application of patches to Operating Systems and applications
- **Setup Wizard** - setup patch management with best practices quickly
- **Demonstrable compliance** - reporting and dashboards for audit purposes
- **Automation** - automated approvals lower the risk of vulnerabilities
- **Maximized uptime** - schedule patches for fastest install and lowest interruption
Introduction
The goal of patch management is to ensure a consistently configured environment that is secure against known vulnerabilities in terms of operating systems and application software.

The patch management process includes setup, acquiring, testing, approving and installing patches on managed devices to create and maintain required systems integrity and meet compliance requirements.

Setting up Patch Management
Initial setup of patch management is performed using a wizard. The wizard will present options and will configure patch management based on these options.

Once setup, the settings may be changed (if required) for synchronization intervals approval, storage location, scheduling, automatic install, machine reboot, etc. to customize the process to your exact needs.

Acquiring Patches
Managed Workplace downloads patches specifically based on OS version/language, and applications for the devices under patch management.

Once downloaded, patches may be optionally stored locally for further distribution.

Storing patches locally on the Onsite Manager requires additional disk space but offers time saving and reduced internet bandwidth usage versus a distribution from the patch author(s) for each machine.

Installing Patches
For additional security, before patches can be installed they must be approved, either manually or automatically. Approval may be by an individual patch basis, by device, or by approval group.

Approval Groups
Approval groups are groups of devices built for ease of approval and management. During setup, devices are placed in pre-existing default groups. New groups can be created to handle different scenarios and devices can be moved between groups easily.

For example, an approval group could be used to differentiate between user workstations based on geographic location.

Patches could be scheduled by group for application immediately after working hours to minimize disruption.

Devices may be added manually to groups or through rules-based auto-grouping.

Manual Patch Approval
Manual approval allows you to test patches and approve them before they are installed.

Automating the Approval
Automating approval using approval groups presents a great deal of flexibility in automatically applying patches based on a patch policy.

Device Patch Policies
A device patch policy defines specific options regarding patch application. These policies may be applied per device, or against an approval group. Options include the ability to;

- Download only,
- Download & auto-install, or
- Immediate install (for updates that do not require restart or interrupt Windows services).
Scheduling Patches
Scheduling of patch application must be tightly controlled to ensure the smallest gap between patch availability and patch application.

Managed Workplace provides a variety of scheduling options. For example, the ability to tightly couple with the Microsoft® ‘Patch Tuesday’ & schedule patches for ‘2nd Saturday of the month’ to minimize this gap.

Scheduling also specifies times that are convenient to the customer.

Careful scheduling allows the balance between customer demand for high availability and protection against vulnerabilities to be achieved.

Ensuring Patch Compliance
On a regular basis, individual machines communicate patch status back to the Onsite Manager.

A single dashboard shows the patch status of each and every device under management.

This display of information shows which patches are needed, which ones have been installed, and which patches may have failed.

Patch Compliance Reporting
Managed Workplace includes several reports that drive informed decisions. The Patch Status report and the Managed Device report are two particularly useful reports to provide information.

When used together, they inform and prioritize tactics supporting the patch strategy as well as providing the necessary documentation required by auditors seeking confirmation of regulatory and/or governmental compliance.

Application software updates
In Managed Workplace, patch management is not limited to Windows and Microsoft applications.

Patch management for non-Microsoft® software and applications are handled directly through a set of specific automation scripts.

A variety of scripts are provided in the Automation Library to handle a wide range of 3rd party applications.

Patch Now
Despite the best planning and scheduling, patches can often be released with little or no notice and so it is important that device or sets of devices can be patched immediately, if required.

The ‘Patch Now’ feature, accessed directly from the Managed Device Report, provides the ability to patch a device or approval group on demand. This ensures that issues such as critical vulnerabilities are addressed quickly.

Summary
Managed Workplace Patch Management combines the information, the flexibility, and the automation you need to stay in control and to ensure the systems integrity of customer networks.
About AVG Technologies (NYSE: AVG)
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